

**B.S. BIOLOGY/SECONDARY EDUCATION (128 or 131 Credits)**

Science, Mathematics and Computer Science Department

Revised July 2022

**A. CORE REQUIRED COURSES (33 or 36) Credits)**

ENGL 160 Composition/Rhetoric (3)	RST 112 (3)	PHIL 113 (3)
ENGL 180 World Literature (3)	RST Elective (3)	PHIL Elective (3)
ENGL Elective (3)	***Modern Language I (3)	Global History (3)
Fine Arts Elective (3)	***Modern Language II (3)	History Elective (3)

**EDUCATION REQUIREMENTS – 40 Total Credits****A. REQUIRED MAJOR COURSES (55 Credits)****C. GENERAL EDUCATION COURSE REQUIREMENTS**

BIOL 122 + L Anatomy & Physiology (4) (S) (SII)	EDUC 000 Field Experience (On Going) (0)
BIOL 150 + L General Biology I (4) (F) (SI)	EDUC 005D Practicum IV Secondary/K-12 (1) (F)
BIOL 151 + L General Biology II (4) (S) (SII)	EDUC 102 Digital Technology and Communication in Education (3)
BIOL 235 + L General Microbiology (4) (F)	EDUC 311 Educational Psychology (3) (F/S)
BIOL 497D Human Evolution (3) (SI)	EDUC 411A Effective Instruction in Secondary Ed & K-12 Ed (3) (F)
BIOL 410 Science Literary Capstone (2) (F)	EDUC 414 Social Foundations of Education (3) (F)
BIOL 411B Curriculum Methods & Materials (4) (F/S)	EDUC 442Q Student Teaching Science (9) (F/S)
BIOL 440 + L Molecular and Cellular Biology (4) (S)	EDUC 461 Methods, Materials and Assessment for Teaching ELS (3) (F/S) (SI/SII)
<b><u>OR</u></b>	EDUC 498B Special Topics in Student Teaching (Seminar) (3)
BIOL 446 + L Genetics (4) (F)	SPED 100 Characteristics of Students with Mild Disabilities (3) (F/S)
CHEM 131 + L General Chemistry I (4) (F) (SI, SII)	SPED 300 Curriculum Adaptations (3) (F/S)
CHEM 132 + L General Chemistry II (4) (S) (SII)	SPED 367* Behavior and Classroom Management (3) (F)
CHEM 221 + L Organic Chemistry I (4) (F)	PSYC 251 Developmental Psychology (3) (F/S) (SII)
ENVS 420 + L Ecology (4) (F)	<b><u>OR</u></b>
*MATH 155 Statistics (3) (F/S) (SI)	PSYC 252 Adolescent Psychology (3) (F)
**MATH 170 Applications of Calculus to the Life Sciences (3) (S) (SI)	
<b><u>OR</u></b>	
**MATH 211 Calculus I (4) (S)	
PHYS 303 + L General Physics I (4) (F)	

Math Placement Test: all students must take this test unless they have AP or dual enrollment credits which meet **all** required courses for the major.

< 40: must take MATH 095 before any other math course (credits do not count towards graduation)

≥40: eligible for MATH 155, MATH 160 (pre-requisite course for MATH 211)

≥75: eligible for all math courses including MATH 211 (Calculus I)

\*you may need to take MATH 095 prior to taking MATH 155 requirement depending on Math Placement Test

\*\* you may need to take MATH 095, MATH 160 prior to MATH 170 requirement depending on Math Placement Test

\*\*\*One or two semesters of required Modern Language depends on Foreign Language Placement Exam.

F: fall semester; S: spring semester; SI: summer I semester; SII; summer II semester; F/S: fall or spring semester